

1 **Amendment to the Claims**

2 **In the Claims:**

3 Please amend Claims 1, 6, 9, 16, 20, and 24 as follows:

4 1. (Currently Amended) A method for recording a live presentation including a predefined  
5 content portion that includes a plurality of presentation slides displayed in response to slide triggering  
6 events during the live presentation, and a live portion with live audio and/or visual content performed  
7 in conjunction with display of said plurality of presentation slides during the live presentation, the  
8 method comprising the steps of:

9 (a) generating slide display commands corresponding to said slide triggering  
10 events captured in real time during the presentation when presented live, for controlling display of  
11 said plurality of presentation slides during playback of a recorded presentation;

12 (b) automatically embedding the slide display commands into a data stream as the  
13 data stream is produced, the data stream comprising data corresponding to the live portion of the  
14 presentation, wherein the live content is captured as a plurality of video frames comprising a plurality  
15 of keyframes and deltaframes;

16 (c) automatically time indexing the plurality of keyframes and deltaframes as the  
17 live content is captured to enable synchronization of the slide display commands with the live  
18 content; and

19 (d) saving the data stream with embedded slide display commands to a file such  
20 that when the file is played, said live portion is reproduced and said plurality of presentation slides  
21 are displayed in substantial synchrony with said live portion as it is played, thereby replicating the  
22 live presentation.

23 2. (Previously Presented) The method of Claim 1, wherein the live portion is captured as it is  
24 performed during the live presentation, further comprising the step of encoding the live portion into a  
25 digital streaming format, thereby producing the data stream.

26 3. (Previously Presented) The method of Claim 2, wherein the step of automatically  
27 embedding the slide display commands comprises the step of interleaving the slide display  
28 commands into the data stream as the slide display commands are generated.

29 4. (Original) The method of Claim 2, wherein the live presentation is performed using a local  
30 computer that generates the slide display commands in response to the slide triggering events; and

1 wherein the live portion of the live presentation is captured and encoded into the data stream using an  
2 encoding computer linked in communication with the local computer, further comprising the steps of:

3 (a) communicating the slide display commands from the local computer to the  
4 encoding computer; and

5 (b) interleaving the slide display commands into the data stream as they are  
6 received by the encoding computer.

7 5. (Previously Cancelled)

8 6. (Currently Amended) The method of Claim 1, wherein the step of automatically time  
9 indexing the plurality of keyframes and deltaframes comprises the steps of:

10 (a) adding a plurality of time index values to the data stream;

11 (b) indexing each of said plurality of keyframes to a corresponding time index  
12 value based on the time stamp of the keyframe; and

13 (c) indexing each slide display command to a nearest preceding keyframe time  
14 index value based on a time stamp of the slide display command.

15 7. (Original) The method of Claim 1, wherein the step generating slide display commands  
16 comprises the steps of:

17 (a) capturing the slide triggering events as they occur during the live presentation;  
18 and

19 (b) generating slide display commands based on the slide triggering events that are  
20 captured.

21 8. (Original) The method of Claim 1, wherein each presentation slide is associated with a  
22 slide file that is saved to a predetermined location, and at least one of the slide display commands  
23 references the predetermined location of an associated slide file.

24 9. (Currently Amended) A method for reproducing on a viewing computer a presentation  
25 that was previously presented live, said viewing computer having a display, said presentation  
26 including a predefined content portion with a plurality of presentation slides that were displayed in  
27 response to slide triggering events during the presentation when it was presented live, and a live  
28 portion comprising live audio and/or visual content performed in conjunction with display of said  
29 plurality of presentation slides during the presentation when it was presented live, the method  
30 comprising the steps of:

1           (a)     producing a recording of the presentation when it was presented live by  
2 performing the steps of:

3                   (i)     producing a data stream comprising data corresponding to the live  
4 portion of the presentation, wherein the live portion of the presentation is captured as a plurality of  
5 video frames comprising a plurality of keyframes and deltaframes;

6                   (ii)    generating slide display commands corresponding to said slide  
7 triggering events captured in real time during the presentation when presented live, each slide display  
8 command controlling display of an associated presentation slide when the recording is played;

9                   (iii)   automatically including the slide display commands with the data  
10 corresponding to the live portion of the presentation in the data stream as the data stream is being  
11 produced, said slide display commands being automatically time indexed in regard to the keyframes  
12 and deltaframes within the data stream based upon the time when the slide triggering events occurred  
13 in the presentation when presented live; and

14                   (iv)   saving the data stream to a data stream file that is accessible by the  
15 viewing computer;

16           (b)     saving the predefined content portion to at least one presentation slide file that  
17 is accessible by the viewing computer;

18           (c)     accessing the data stream file with the viewing computer;

19           (d)     reproducing the live portion of the presentation on the display of the viewing  
20 computer by playing the data stream file;

21           (e)     extracting the slide display commands from the data stream as the slide display  
22 commands are encountered while playing the data stream file;

23           (f)     in response to each slide display command that is extracted in the preceding  
24 step, accessing data corresponding to its associated presentation slide with the viewing computer; and

25           (g)     reproducing each of the plurality of presentation slides on the display of the  
26 viewing computer as data corresponding to that presentation slide is accessed by the viewing  
27 computer in the preceding step, so that when the presentation is reproduced, the associated  
28 presentation slide is displayed at substantially an identical time relative to when displayed during the  
29 live portion of the presentation when presented live.

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1           10. (Original) The method of Claim 9, wherein the viewing computer accesses the data  
2 corresponding to the presentation slides with a browser program.

3           11. (Original) The method of Claim 10, wherein each of said plurality of presentation slides  
4 is associated with a corresponding HTML slide file that is saved to a predetermined location on a  
5 network accessible by the viewing computer and at least a portion of said slide display commands  
6 comprise a link to the predetermined location of an associated HTML slide file on the network, each  
7 of said HTML slide files being opened in the browser program in response to its associated slide  
8 display command, said browser program interpreting the HTML slide files to reproduce said plurality  
9 of presentation slides.

10           12. (Original) The method of Claim 11, wherein the link to each HTML slide files comprises  
11 an absolute reference to a location on the network at which the HTML slide file corresponding to the  
12 link is stored.

13           13. (Original) The method of Claim 12, wherein each of the absolute references comprises a  
14 base portion identifying a base directory on a network resource in or below which the HTML slide  
15 files are stored, and a relative portion, identifying a location at which the HTML slide files are stored  
16 relative to the base directory, further comprising the steps of:

17                   (a)     passing the base portion to the browser program to indicate a location of the  
18 base directory;

19                   (b)     removing the base portion from each of the links in said slide display  
20 commands so as leave only the relative portion of the link; and

21                   (c)     using the relative portion of each link to enable the browser program to access  
22 the HTML file associated with that link.

23           14. (Original) The method of Claim 10, wherein the browser program includes a display area  
24 having a primary frame, and a secondary frame, a media player screen appearing in the secondary  
25 frame, said presentation slide files being reproduced in the primary frame, and said live visual content  
26 being reproduced in the media player screen.

27           15. (Original) The method of Claim 14, further comprising the steps of:

28                   (a)     indicating a location at which the data stream file is stored to the viewing  
29 computer;

30                   (b)     directing the data stream to the secondary frame; and

1 (c) playing the data stream in the secondary frame after at least a portion of the  
2 data stream file is received, to reproduce the live portion of the presentation.

3 16. (Currently Amended) A system for recording a live presentation including a predefined  
4 content portion having a plurality of presentation slides that are displayed in response to slide  
5 triggering events during the live presentation, and a live portion with live audio and/or visual content  
6 performed in conjunction with display of said plurality of presentation slides during the live  
7 presentation, the system comprising:

8 (a) a local computer having a memory in which a plurality of machine instructions  
9 are stored, a user interface, and a processor coupled to the memory for executing the machine  
10 instructions;

11 (b) a presentation application program comprising a portion of the plurality of  
12 machine instructions stored in the memory of the local computer, the presentation application  
13 program enabling:

14 (i) a presenter to change slides during the live presentation in response to  
15 slide triggering events entered through the user interface; and

16 (ii) slide display commands to be generated in response to the slide  
17 triggering events;

18 (c) an audio capture subsystem that produces a digital audio signal corresponding  
19 to the live audio content; and

20 (d) an encoding application module comprising a portion of the plurality of  
21 machine instructions stored in the memory of the local computer, said encoding application module  
22 being used for:

23 (i) encoding the digital audio signal into a data stream having a streaming  
24 data format;

25 (ii) automatically including the slide display commands with the digital  
26 audio signal in the data stream as the digital audio signal is encoded into the data stream, said data  
27 stream being automatically time indexed to enable synchronization of the slide display commands  
28 with the digital audio signal; and

29 (iii) saving the data stream to a data stream file such that when the data  
30 stream file is played, said audio content is reproduced, and said plurality of presentation slides are

1 displayed in substantial synchrony with said audio content as it is reproduced, thereby replicating the  
2 live presentation and a timing with which the presentation slides were displayed during the live  
3 presentation in connection with the live audio content.

4 17. (Original) The system of Claim 16, wherein the live portion of the live presentation  
5 further comprises live visual content, further including a video capture subsystem that produces a  
6 digital video signal corresponding the live visual content, whereby the digital video signal is encoded  
7 along with the digital audio signal into the data stream, such that the audio and visual content is  
8 reproduced in synchrony when the data stream file is played.

9 18. (Original) The system of Claim 17, wherein the live visual content is captured as a  
10 plurality of video frames, each being encoded into the data stream with a corresponding time stamp,  
11 and the slide display commands are interleaved into the data stream, such that each slide display  
12 command has a relative time stamp based on its location in the data stream.

13 19. (Original) The system of Claim 18, wherein the plurality of video frames comprises a  
14 plurality of keyframes and deltaframes, and the encoding module further performs the functions of:

- 15 (a) adding a plurality of time index values to the data stream;  
16 (b) indexing each of said plurality of keyframes to a corresponding time index  
17 value, based on a timestamp of the keyframe; and  
18 (c) indexing each slide display command to a nearest preceding keyframe time  
19 index value, based on a time stamp of the slide display command.

20 20. (Currently Amended) A system for recording a live presentation including a predefined  
21 content portion having a plurality of presentation slides that are displayed in response to slide  
22 triggering events during the live presentation, and a live portion comprising live audio content  
23 performed in conjunction with display of said plurality of presentation slides during the live  
24 presentation, the system comprising:

- 25 (a) a local computer having a memory in which a plurality of machine instructions  
26 are stored, a user interface, and a processor coupled to the memory for executing the machine  
27 instructions;  
28 (b) an audio capture subsystem that produces a digital audio signal corresponding  
29 to the live audio content;

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1 (c) an encoding computer having a memory in which a plurality of machine  
2 instructions are stored, and a processor coupled to the memory for executing the machine  
3 instructions, the encoding computer being linked in communication with the local computer and the  
4 audio capture subsystem;

5 (d) a portion of the plurality of machine instructions stored in the memory of the  
6 encoding computer comprising an encoding module, execution of the encoding module performing  
7 the functions of:

8 (i) encoding the digital audio signal into a data stream having a streaming  
9 data format, said data stream being automatically time indexed to enable synchronization of the slide  
10 display commands with the digital audio signal; and

11 (ii) saving the data stream to a data stream file; and

12 (e) a presentation application program comprising a portion of the plurality of  
13 machine instructions stored in the memory of the local computer, execution of the presentation  
14 application program enabling:

15 (i) a presenter to change slides during the live presentation by entering  
16 slide triggering events through the user interface;

17 (ii) slide display commands to be generated in response to the slide  
18 triggering events; and

19 (iii) communication of the slide display commands to the encoding  
20 computer, said slide display commands being automatically included in the data stream with the  
21 encoded digital audio signal by the encoding module as the slide display commands are received by  
22 the encoding computer and as the digital audio signal is encoded into the data stream, such that when  
23 the data stream file is played, so that said audio content is reproduced and said plurality of  
24 presentation slides are displayed in substantial synchrony with said audio content as it is reproduced,  
25 thereby replicating the live presentation and the timing of the presentation slides being displayed in  
26 connection with the audio content.

27 21. (Original) The system of Claim 20, wherein the live portion of the live presentation  
28 further comprises live visual content, further including a video capture subsystem that produces a  
29 digital video signal corresponding to the live visual content, said digital video signal being encoded  
30

1 into the data stream by the encoding module executing on the encoding computer, such that the audio  
2 content and visual content are reproduced in synchrony when the data stream file is played.

3 22. (Previously Presented) The system of Claim 21, wherein the live visual content is  
4 captured as a plurality of video frames, each being encoded into the data stream with a corresponding  
5 time stamp, and wherein the slide display commands are interleaved into the data stream, such that  
6 each slide display command has a relative time stamp based on its location in the data stream.

7 23. (Original) The system of Claim 22, wherein the plurality of video frames comprises a  
8 plurality of keyframes and deltaframes, and the encoding module further performs the functions of:

- 9 (a) adding a plurality of time index values to the data stream;  
10 (b) indexing each of said plurality of keyframes to a corresponding time index  
11 value, based on a time stamp of the keyframe; and  
12 (c) indexing each slide display command to a nearest preceding keyframe time  
13 index value, based on a time stamp of the slide display command.

14 24. (Currently Amended) A computer-readable medium having computer-executable  
15 instructions for recording a live presentation having a predefined content portion that includes a  
16 plurality of presentation slides displayed on a computer in response to slide triggering events during  
17 the live presentation, and a live portion comprising live audio and/or visual content performed in  
18 conjunction with display of said plurality of presentation slides during the live presentation,  
19 execution of the computer-executable instructions causing a computer to:

20 (a) generate slide display commands corresponding to said slide triggering events  
21 captured in real time during the presentation when presented live, for controlling display of said  
22 plurality of presentation slides during playback of a recorded presentation;

23 (b) automatically embed the slide display commands into a data stream as the data  
24 stream is produced, the data stream comprising data corresponding to the live portion of the  
25 presentation automatically indexed with timing to ensure that the slide display commands are  
26 synchronized with the audio and/or visual content as performed in the live presentation; and

27 (c) save the data stream with embedded slide display commands to a file, such that  
28 when the file is played, said live portion is reproduced and such that said plurality of presentation  
29 slides are displayed in substantial synchrony with said live portion, thereby replicating the live  
30 presentation and display of said plurality of presentation slides.



1           25. (Previously Presented) The computer-readable medium of Claim 24, wherein execution  
2 of the computer-executable instructions further cause the live portion to be captured as it is performed  
3 during the live presentation and to be encoded into a digital streaming format.

4           26. (Previously Presented) The computer-readable medium of Claim 25, wherein the slide  
5 display commands are interleaved into the data stream as the slide display commands are generated.

6           27. (Previously Presented) The computer-readable medium of Claim 25, wherein the live  
7 visual content is captured as a plurality of video frames, each being encoded into the data stream with  
8 a corresponding time stamp, and the slide display commands are interleaved into the data stream such  
9 that each slide display command has a relative time stamp based on its location in the data stream.

10          28. (Previously Presented) The computer-readable medium of Claim 25, wherein the  
11 plurality of video frames comprises a plurality of keyframes and deltaframes, execution of the  
12 computer-executable instructions causing a computer to:

- 13                   (a)     add a plurality of time index values to the data stream;  
14                   (b)     index each of said plurality of keyframes to a corresponding time index value,  
15 based on a timestamp of the keyframe; and  
16                   (c)     index each slide display command to a nearest preceding keyframe time index  
17 value, based on a time stamp of the slide display command.

18          29. (Previously Presented) The computer-readable medium of Claim 24, wherein:

- 19                   (a)     the slide triggering events are captured as they occur during the live  
20 presentation;  
21                   (b)     the slide display commands are generated based on the slide triggering events  
22 that are captured.